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Fig. 1a

	10	11	12	13	14	15	16	17	18	19	20	21
Human	Cys	Thr	Leu	Gln	Glu	Asn	Pro	Phe	Phe	Ser	Gln	Pro
<u>Chimpanzee</u>	---	---	---	---	---	---	---	---	---	---	---	---
<u>Orangutan</u>	---	---	---	---	---	---	---	---	---	---	---	---
<u>Gibbon</u>	---	Gln	---	His	---	---	---	---	---	---	---	---
<u>Baboon</u>	---	Lys	Pro	Arg	---	---	Gln	---	---	---	Lys	---
Rhesus	---	Lys	Pro	Arg	---	---	Lys	---	---	---	Lys	---
Marmoset	---	Lys	---	Lys	---	---	Lys	Tyr	---	---	Arg	Leu
<u>Bovine</u>	---	Lys	---	Lys	---	---	Lys	Tyr	---	---	Lys	---
Ovine	---	Lys	---	Lys	---	---	Lys	Tyr	---	---	Lys	---
Equine	---	Lys	---	Arg	---	---	Lys	Tyr	---	---	Lys	---
Porcine	---	Lys	---	Lys	---	---	Lys	Tyr	---	Phe	Lys	Leu
Rabbit	---	Lys	---	Lys	---	---	Lys	Tyr	---	---	Lys	Leu
Mouse	---	Lys	---	Lys	---	---	Lys	Tyr	---	---	Lys	Leu
Rat	---	Lys	---	Lys	---	---	Lys	Tyr	---	---	Lys	Leu
Whale	---	Lys	---	Lys	Gln	---	Lys	Tyr	---	---	Lys	Leu
Quail	---	Lys	---	Gly	---	---	Arg	---	---	---	Lys	---
Chicken	---	Lys	---	Gly	---	---	Arg	---	---	---	Lys	---
Turkey	---	Lys	---	Gly	---	---	Arg	---	---	---	Lys	---
Bullfrog	---	Arg	---	Lys	---	---	Leu	Arg	---	---	Lys	---
Salmon 1	---	Lys	---	Lys	---	---	Lys	Val	---	---	Asn	---
Salmon 2	---	---	---	Lys	Pro	---	Thr	Ile	---	Pro	Asn	---
Catfish	---	Lys	---	Lys	---	---	Asn	Ile	---	---	Lys	---
Tuna	---	---	---	Lys	Lys	---	Asn	Val	---	---	Arg	---
Yellowfin	---	---	---	Arg	Lys	---	Thr	Val	---	---	Arg	---
Bass	---	---	---	Arg	Lys	---	Ser	Val	---	---	Arg	---
Carp 1	---	Lys	---	Lys	---	---	Asn	Ile	---	---	Lys	---
Carp 2	---	---	---	Lys	---	---	Asn	Ile	---	---	Lys	---
Pike eel	---	Arg	---	Lys	Asp	---	Lys	---	---	---	Lys	---
Eel	---	Arg	---	---	---	---	Lys	Ile	---	---	Lys	---

Fig. 1b

<u>Q13K</u>	---	---	---	Lys	---	---	---	---	---	---	---	---
<u>P16K</u>	---	---	---	---	---	---	Lys	---	---	---	---	---
<u>Q20K</u>	---	---	---	---	---	---	---	---	---	---	---	---
<u>P16K+Q20K</u>	---	---	---	---	---	---	---	---	---	---	Lys	---
<u>P16K+Q20K+Q13K</u>	---	---	---	---	---	---	Lys	---	---	---	Lys	---
<u>P16K+Q20K+Q13K+E14K</u>	---	---	---	Lys	Lys	---	Lys	---	---	---	Lys	---

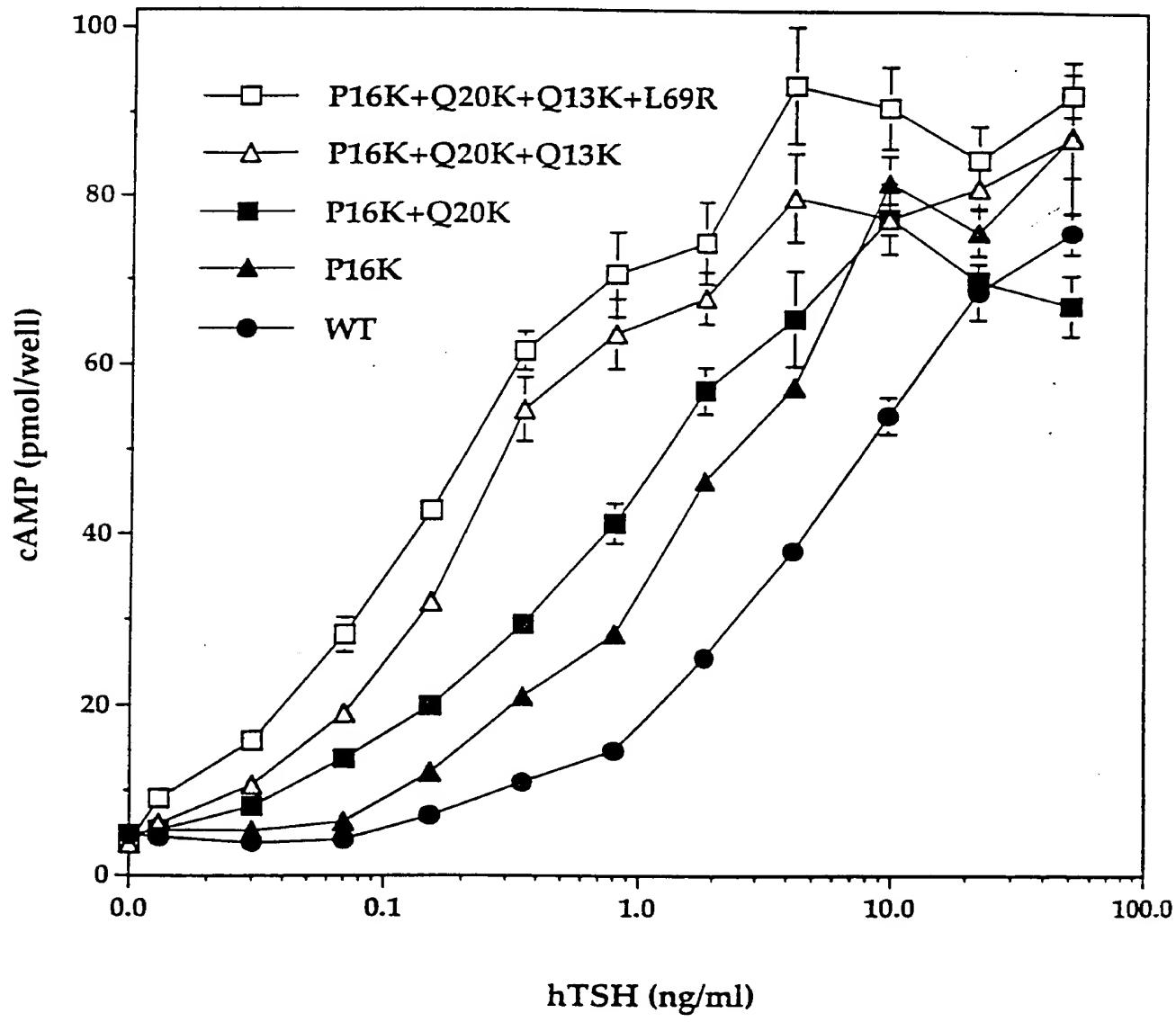


Fig. 2a

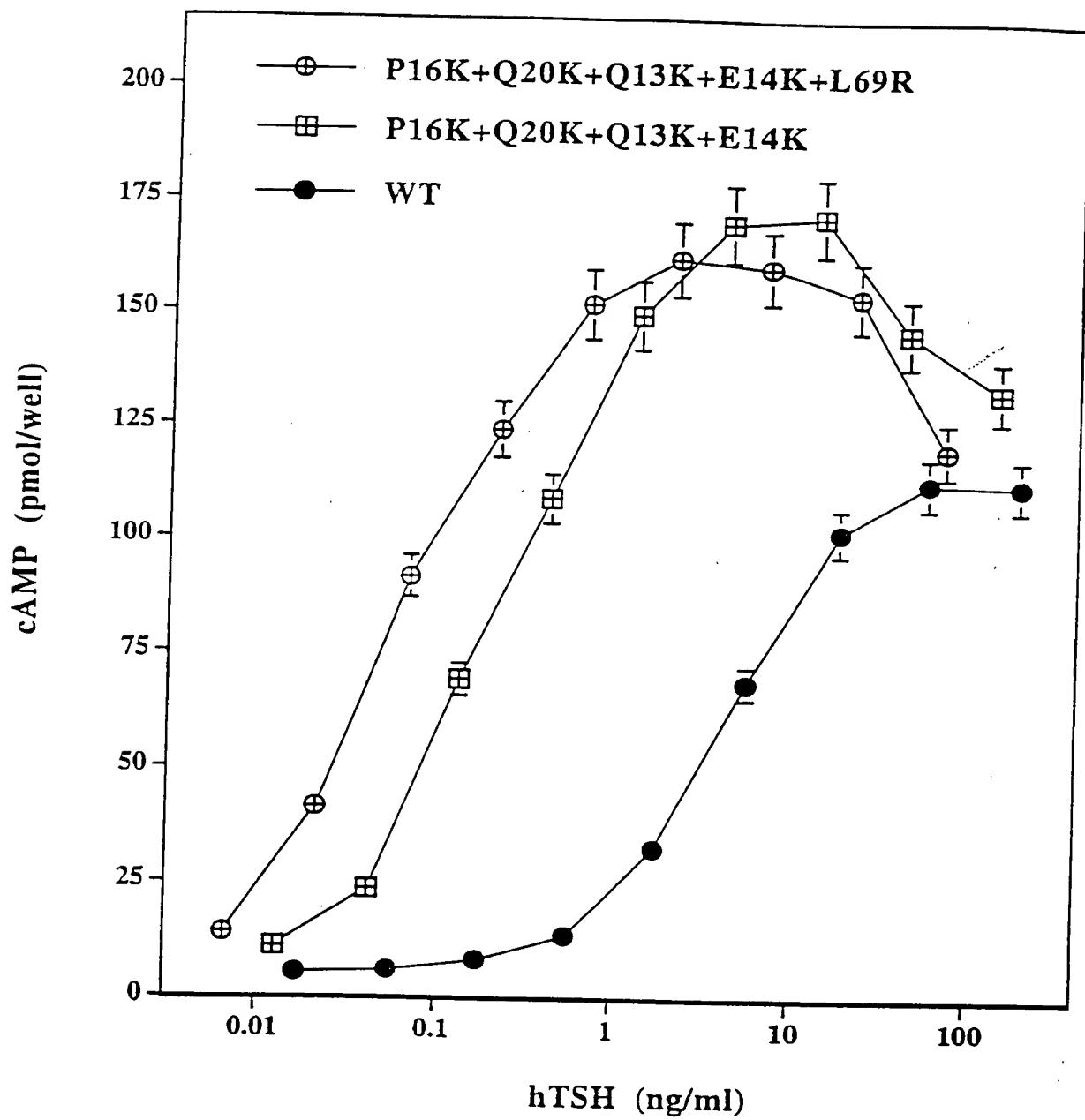


Fig. 2b

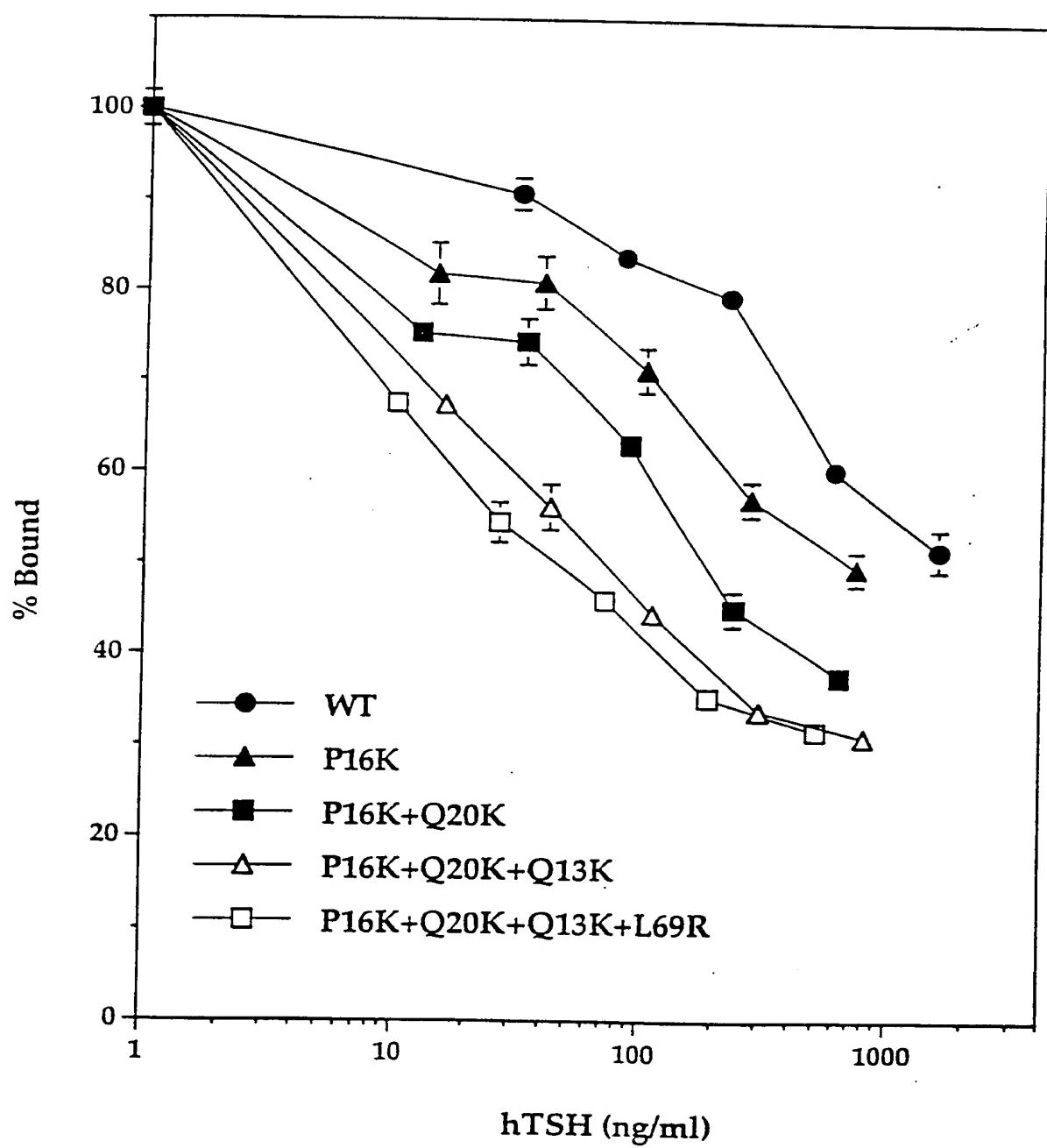


Fig. 2c

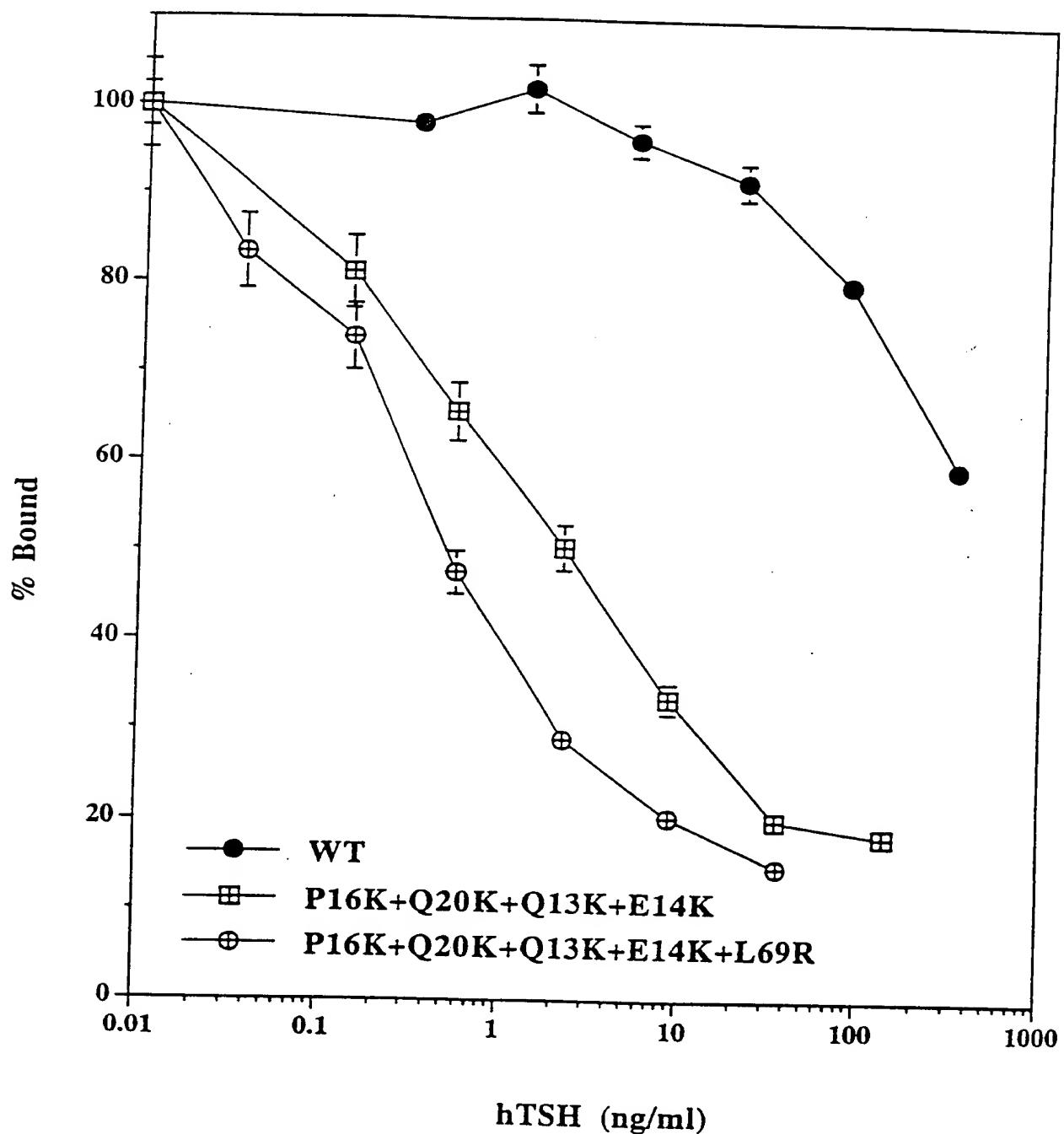
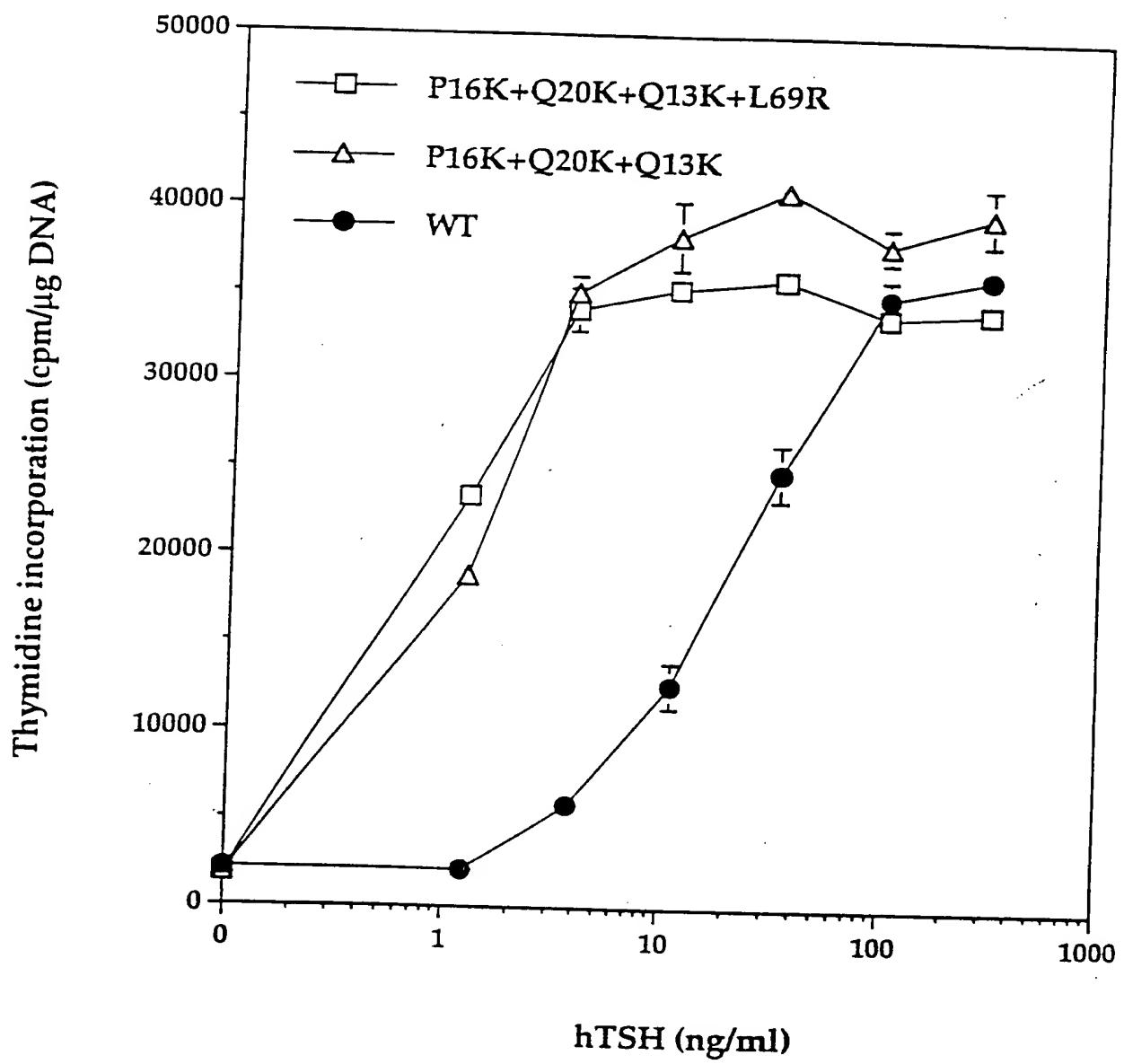


Fig. 2d

**Fig. 2e**

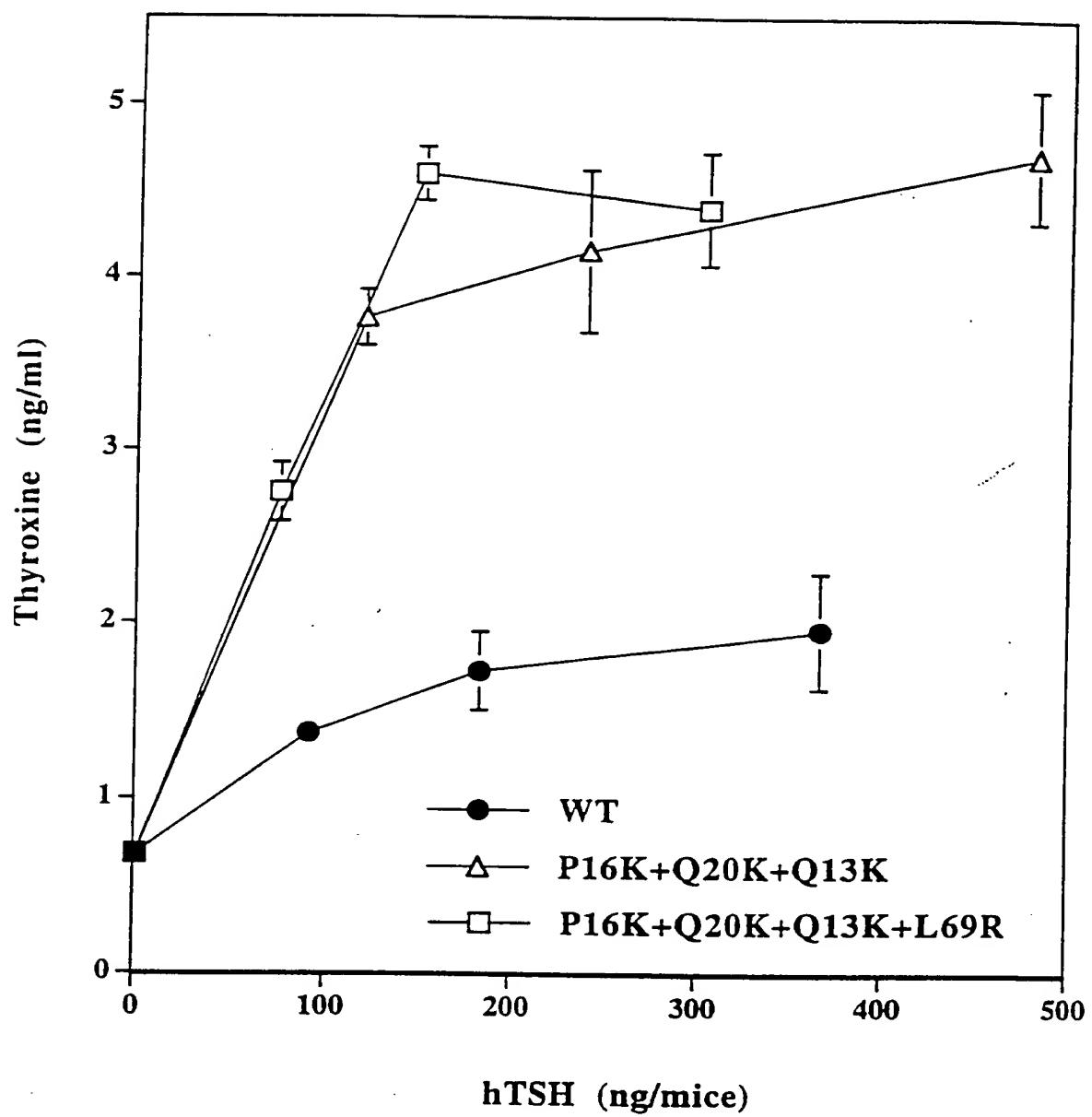


Fig. 2f

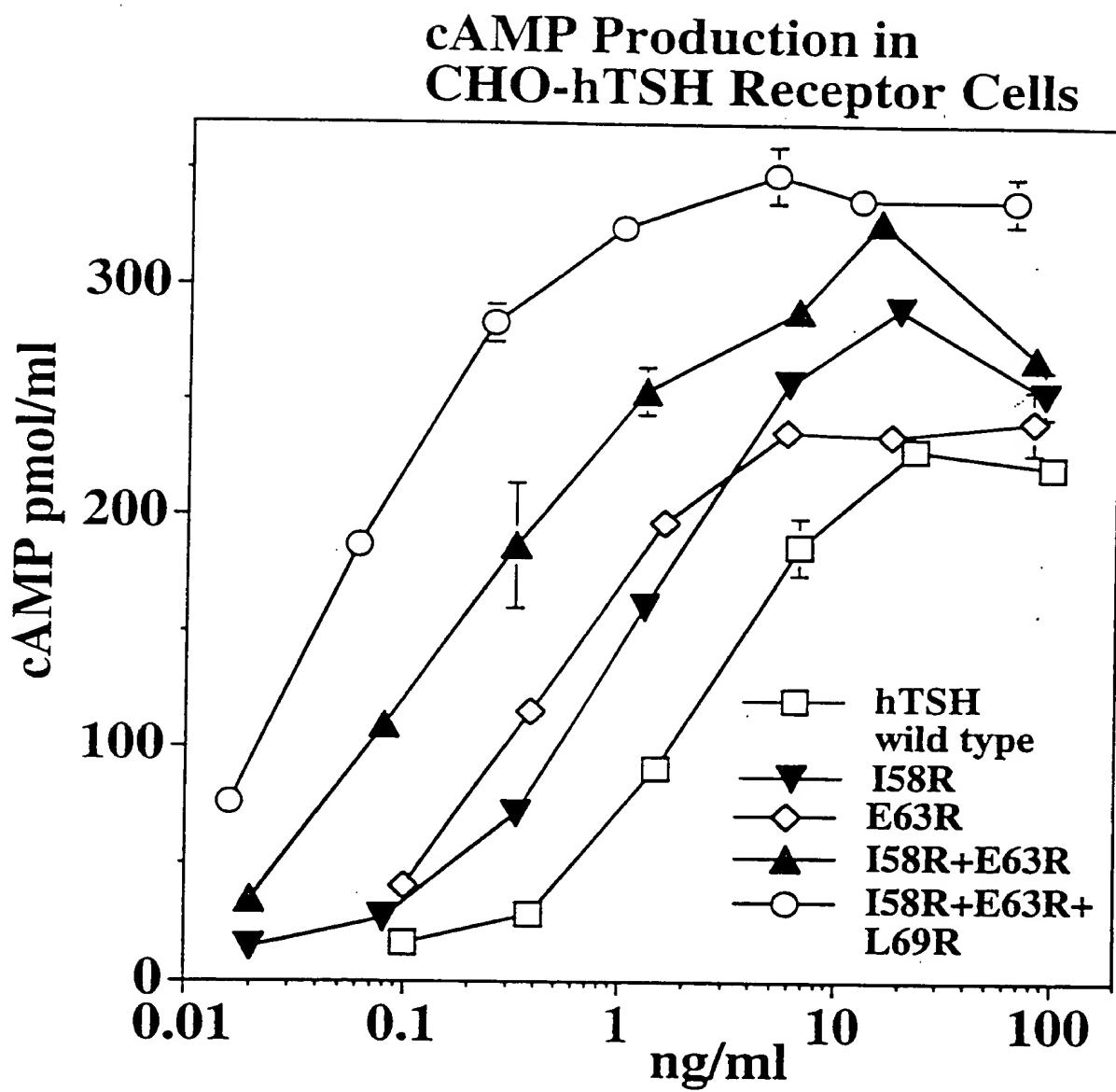


Fig. 2g

Binding to CHO-hTSH Receptor Cells

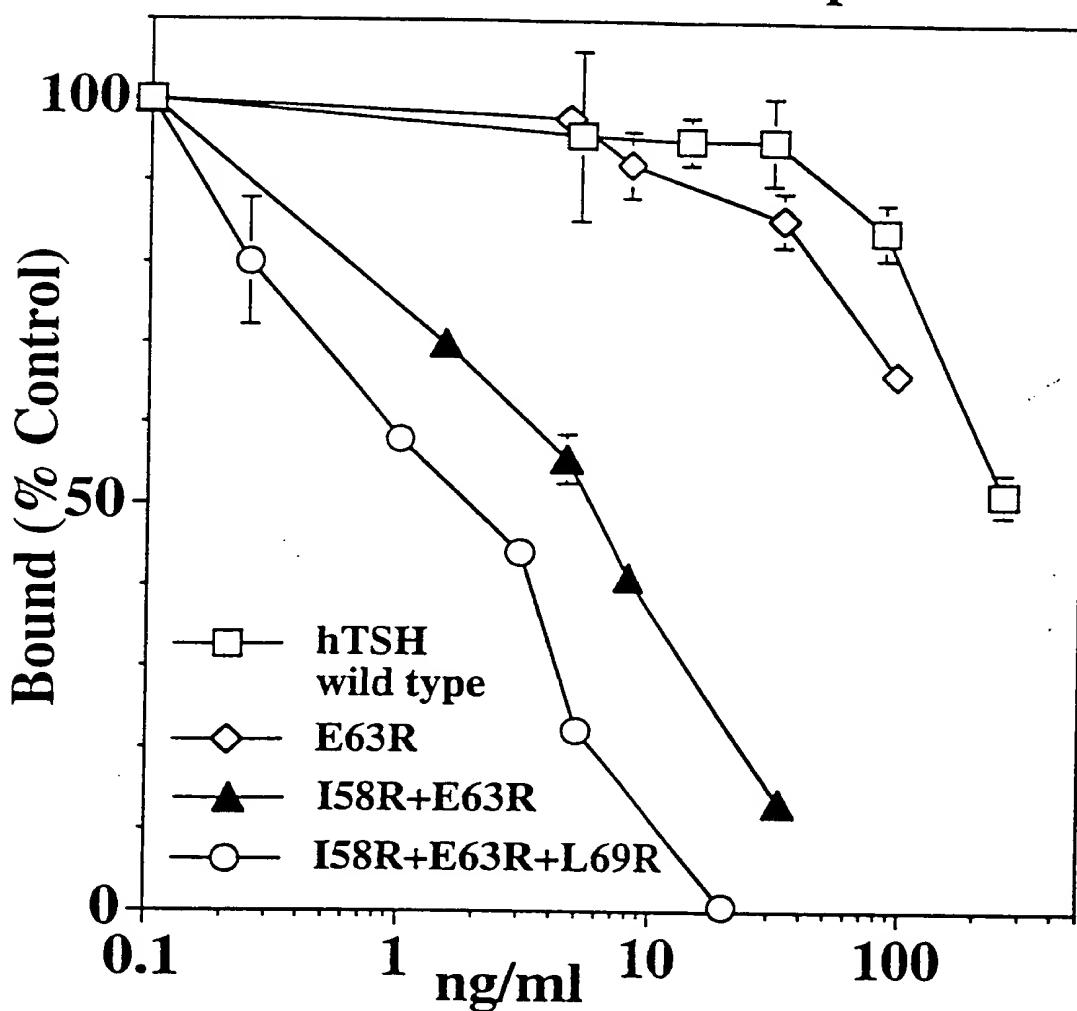


Fig. 2h

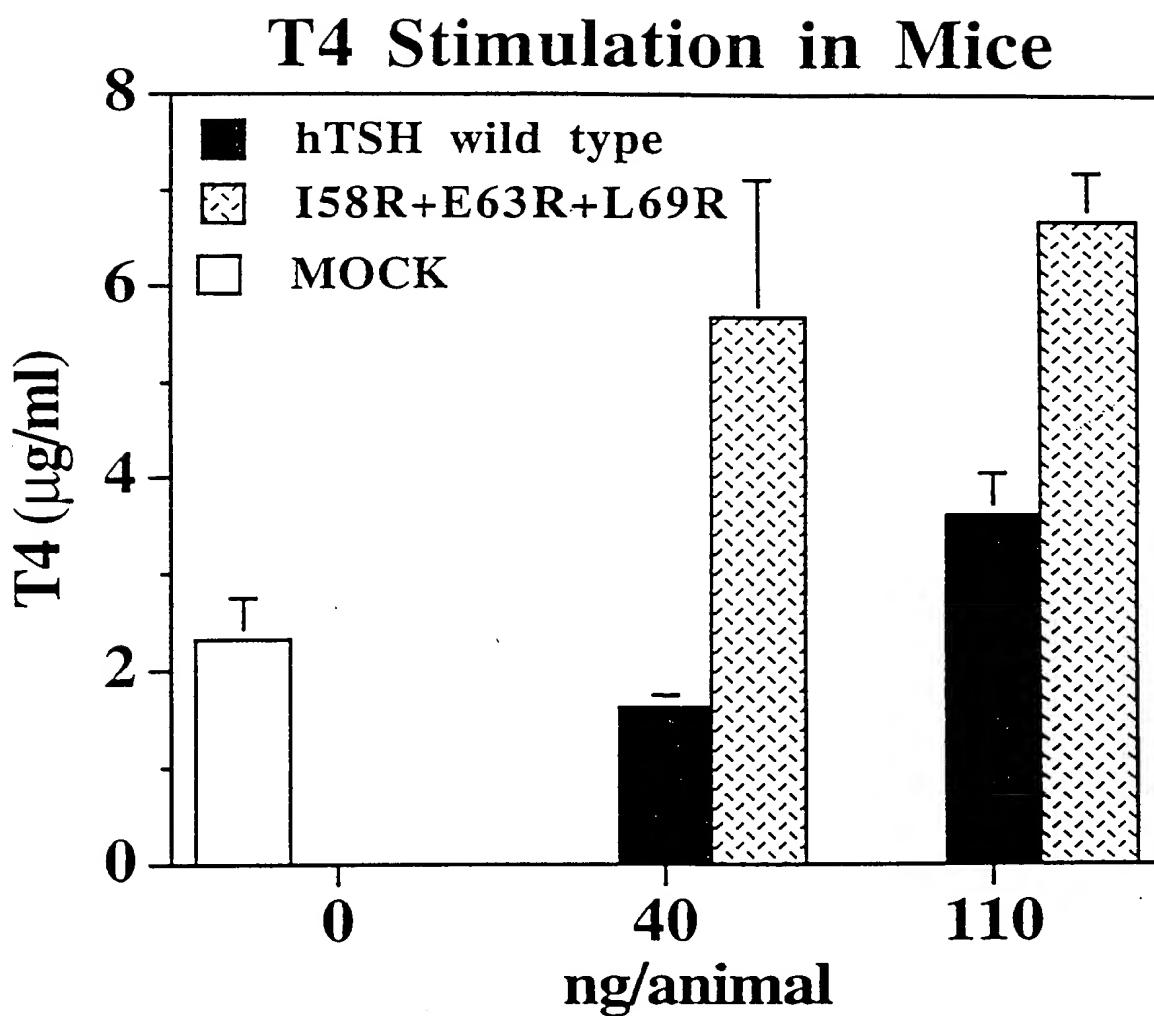


Fig. 2i

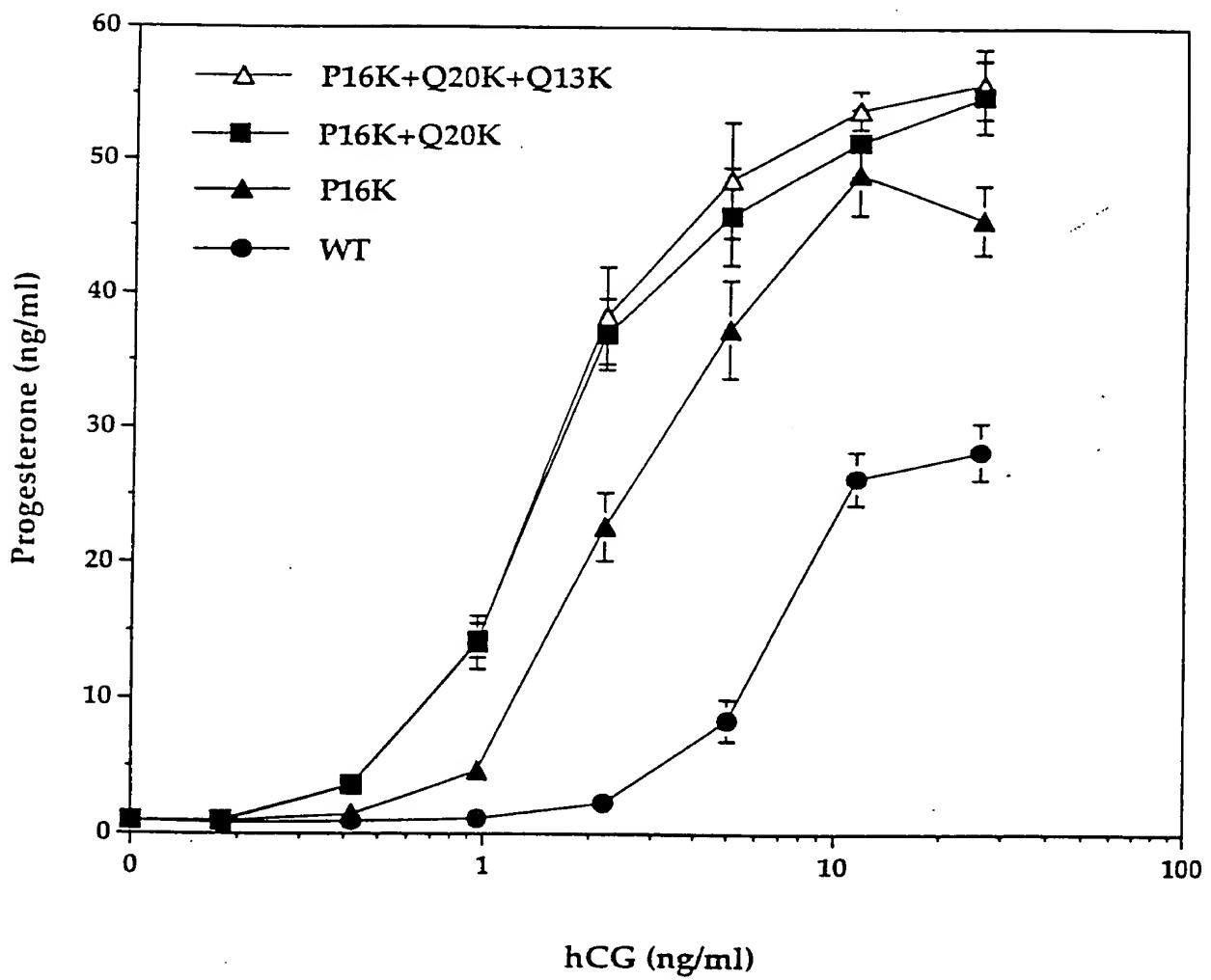


Fig. 3a

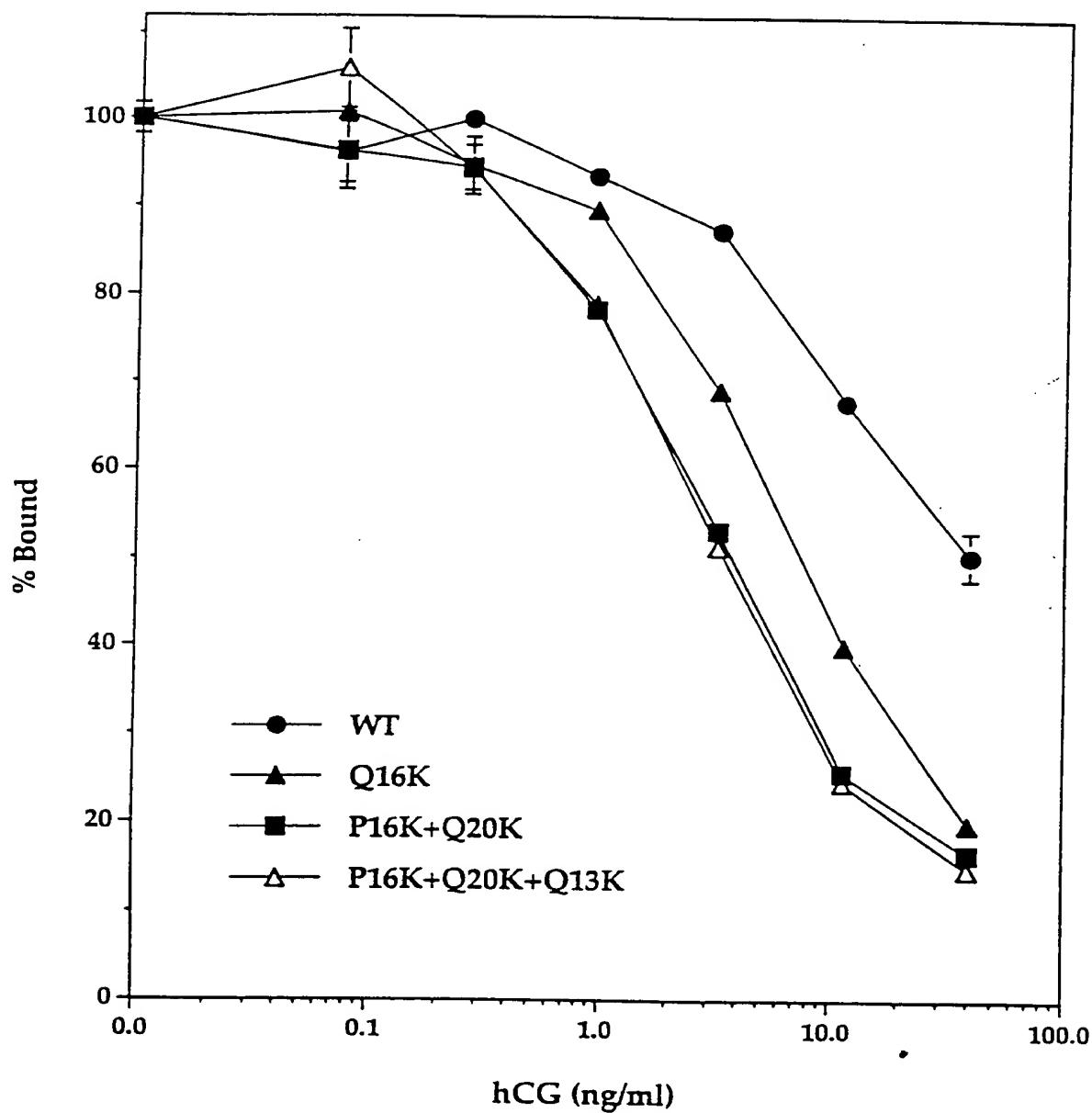


Fig. 3b

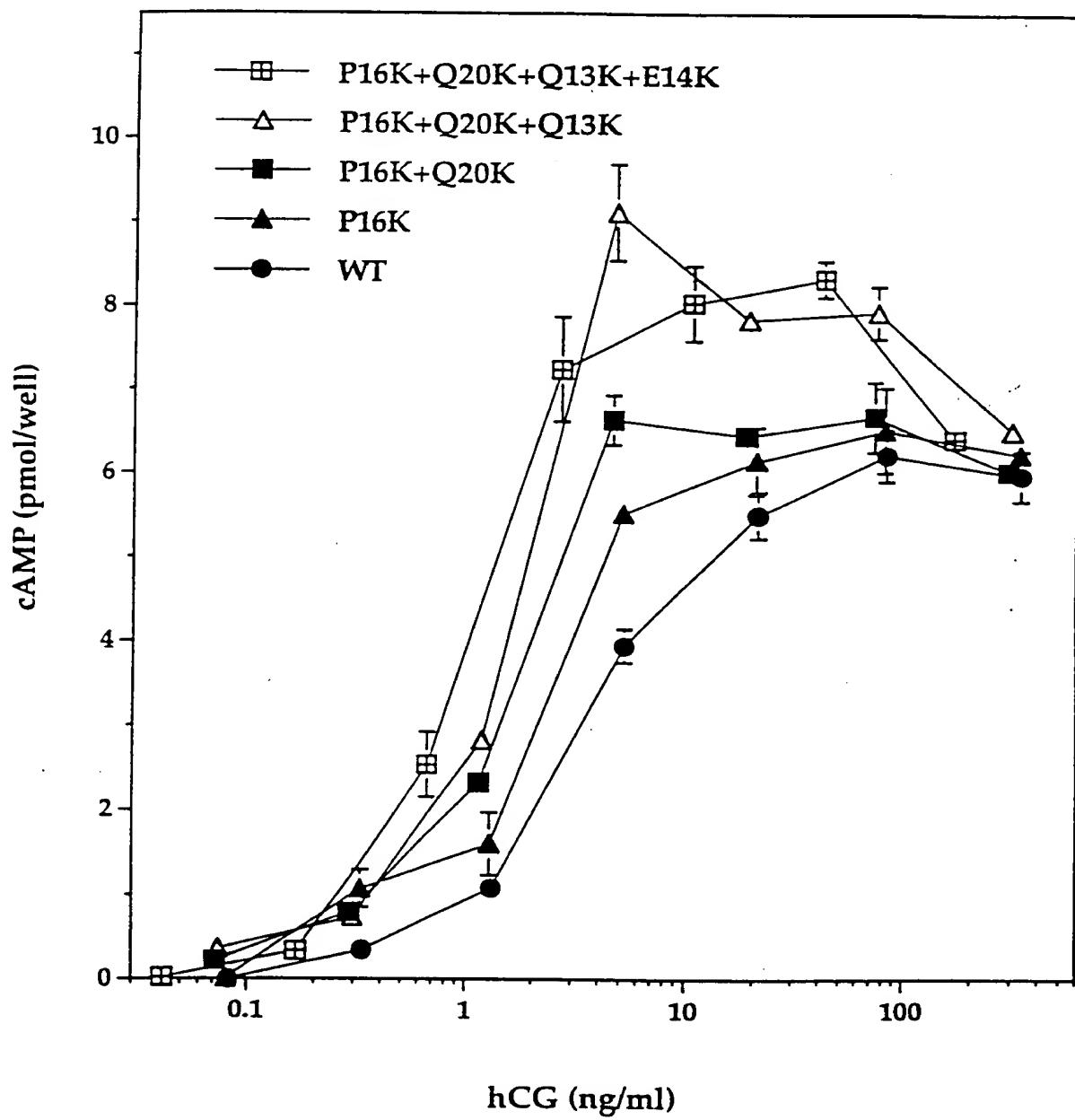


Fig. 3c

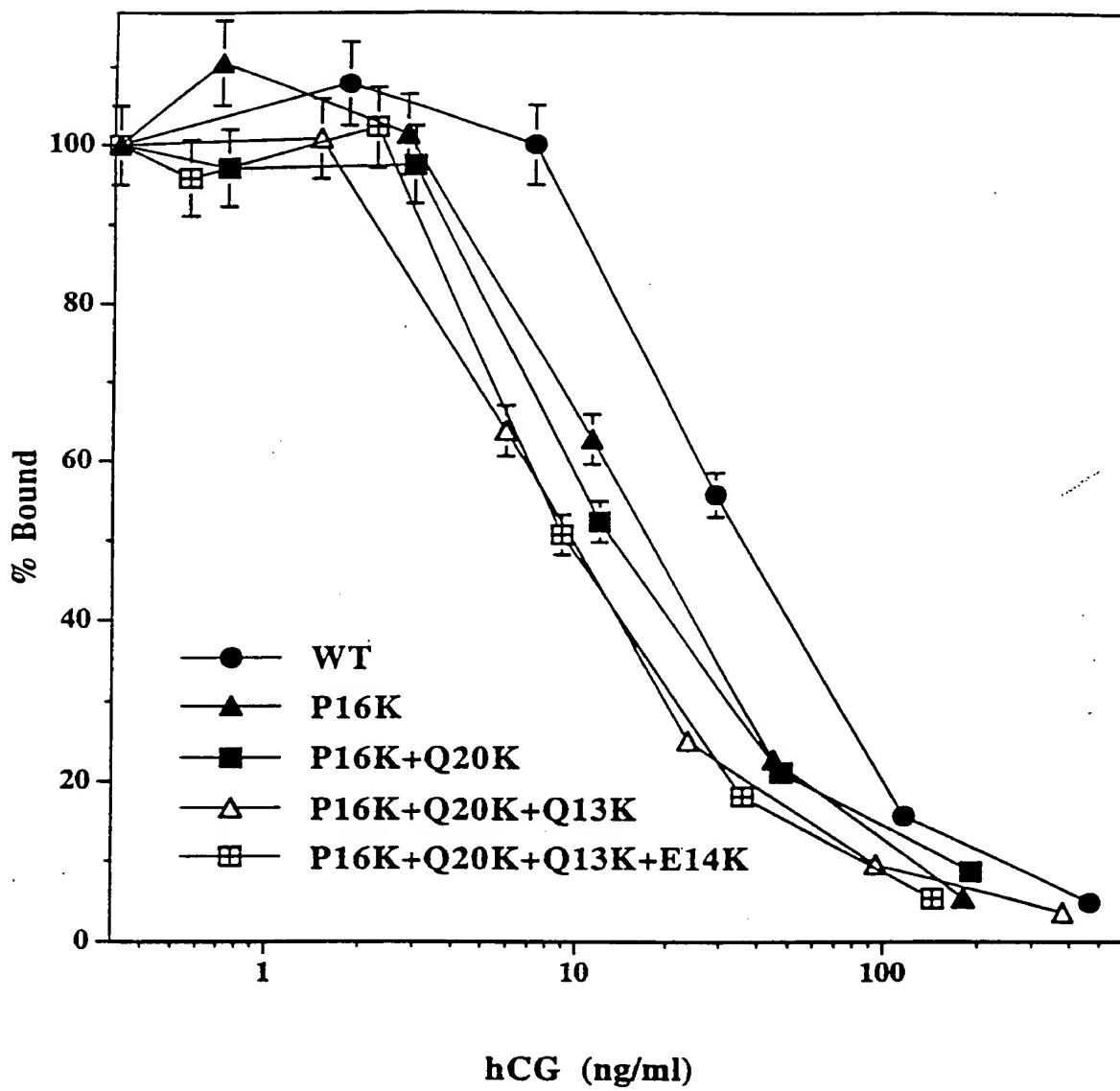


Fig. 3d